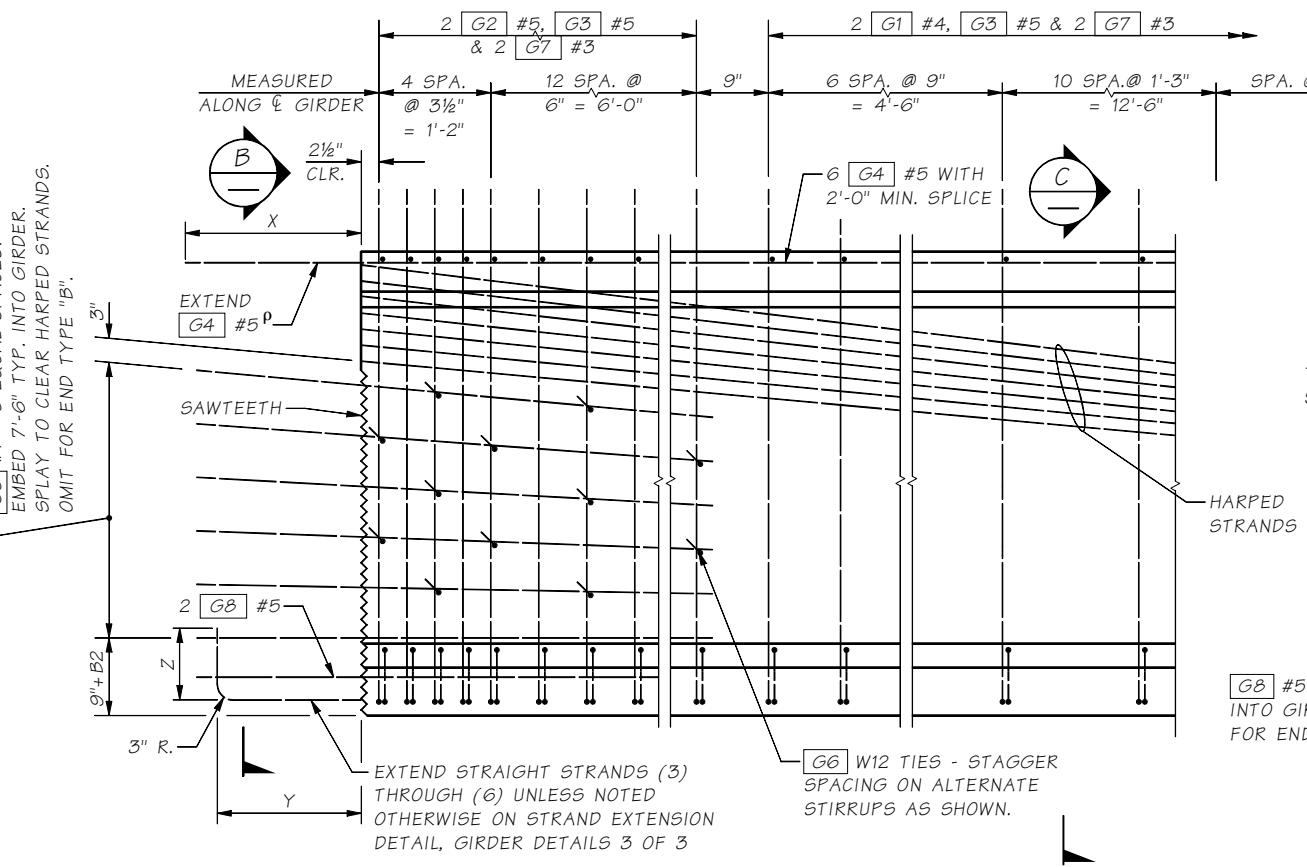


GIRDER ELEVATION

* OMIT HOLES AND PLACE INSERTS ON THE INTERIOR FACE OF EXTERIOR GIRDERS. PLACE HOLES AND INSERTS PARALLEL TO SKEW. INSERTS SHALL BE 1"Ø BURKE HI-TENSILE, LANCASTER MALLEABLE, DAYTON-SUPERIOR F-62 FLARED THIN SLAB (1" x 4 3/8") FERRULE OR APPROVED EQUAL. (TYP.)

NOTES

1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.
2. ALL PRETENSIONED AND TEMPORARY STRANDS SHALL BE $[\frac{1}{2}"\delta \text{ OR } 0.6"\delta]$ LOW RELAXATION STRANDS (AASHTO M203 GRADE 270.)
3. FOR END TYPES A, C AND D, CUT ALL STRANDS FLUSH WITH THE GIRDER ENDS AND PAINT WITH AN APPROVED EPOXY RESIN, EXCEPT FOR EXTENDED STRANDS AS SHOWN. FOR END TYPE B CUT ALL STRANDS 1" BELOW CONCRETE SURFACE AND GROUT WITH AN APPROVED EPOXY GROUT.
4. THE TOP SURFACE OF THE GIRDER FLANGE SHALL BE ROUGHENED IN ACCORDANCE WITH SECTION 6-02.3(25)H OF THE STANDARD SPECIFICATIONS.
5. LIFTING EMBEDMENTS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 6-02.3(25)L OF THE STANDARD SPECIFICATIONS.
6. CAUTION SHALL BE EXERCISED IN HANDLING AND PLACING GIRDERS. ALL GIRDERS SHALL BE CHECKED BY THE CONTRACTOR TO ENSURE THAT THEY ARE BRACED ADEQUATELY TO PREVENT TIPPING AND TO CONTROL LATERAL BENDING DURING SHIPPING. ONCE ERECTED, ALL GIRDERS SHALL BE BRACED Laterally TO PREVENT TIPPING UNTIL THE DIAPHRAGMS ARE CAST AND CURED.
7. FORMS FOR BEARING PAD RECESSES SHALL BE CONSTRUCTED AND FASTENED IN SUCH A MANNER AS TO NOT CAUSE DAMAGE TO THE GIRDER DURING THE STRAND RELEASE OPERATION.
8. TEMPORARY STRANDS SHALL BE EITHER PRETENSIONED OR POST-TENSIONED IN ACCORDANCE WITH SECTION 6-02.3(25)J OF THE STANDARD SPECIFICATIONS. IF PRETENSIONED, THESE TEMPORARY STRANDS SHALL BE UNBONDED OVER ALL BUT THE END 10'-0" OF THE GIRDER LENGTH. AS AN ALTERNATE, TEMPORARY STRANDS MAY BE POST-TENSIONED ON THE SAME DAY THE PRETENSIONING IS RELEASED INTO THE GIRDER.



TYPICAL END ELEVATION

END TYPE C SHOWN, OTHER END TYPES SIMILAR.

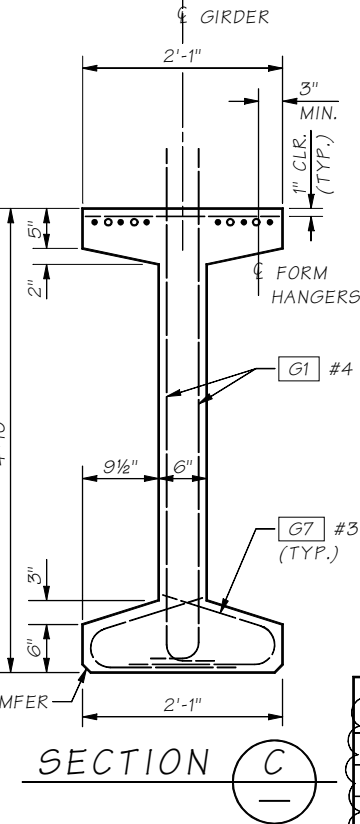
FIELD BENDING REQUIRED TO OBTAIN 1 1/2" CONCRETE COVER AT PAVEMENT SEAT.

(stirrup spacing shall be determined by the designer)

FOR END TYPE "C"

ENDS AHEAD ON STATION
[G5] BARS LEFT OF G
B1 = 0" ([G4], [G8])
B2 = 0" ([G5])
ENDS BACK ON STATION
[G5] BARS RIGHT OF G
B1 = 1 1/2" ([G4], [G8])
B2 = 3" ([G5])

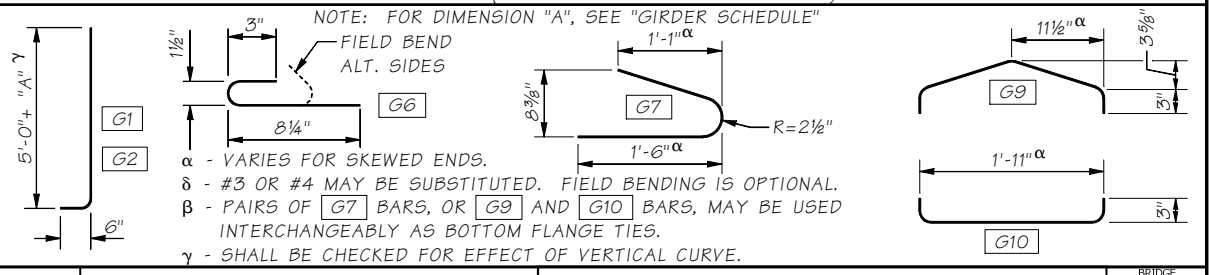
MARK	LOCATION	SIZE
G1	GIRDER STIRRUPS	4
G2	GIRDER END STIRRUPS	5
G3	GIRDER TOP FLANGE	5 STR.
G4	GIRDER LONGIT. FULL LENGTH	5 STR.
G5	GIRDER END LONGIT.	7 STR.
G6	GIRDER END TIES	W12δ
G7β	GIRDER BOT. FLANGE TIES	3
G8	GIRDER END LONGIT.	5 STR.
G9β	GIRDER BOT. FLANGE TIES	3
G10β	GIRDER BOT. FLANGE TIES	3



INTERMEDIATE DIAPHRAGM:
1/3 points of span for span lengths 80'-0" to 120'-0"
1/2 points of span for span lengths less than 40'-0" to 80'-0"
No intermediate diaphragm for span lengths 40'-0" or less.

Diaphragm Type	END TYPE	BEARING RECESS	X	Y	Z	SAWTEETH
End Diaph. on Girder	A	YES	1'-10"	1'-6"	9"	YES
"L" Abutment	B	YES	0"	0"	0"	NO
Hinge Diaph. on Interm. Pier	C	NO	1'-10"	1'-6"	9"	YES
Fixed Diaph. @ Interm. Pier	D	NO	1'-10"	ALT. 1 OR ALT. 2 STRAND EXTEN.		YES

BENDING DIAGRAM (ALL DIMENSIONS ARE OUT TO OUT)



SR JOB NO. SHEET

Bridge Design Engr.	M:\STANDARDS\Girders\I-Girders\W58G\W58G1.man	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By						
Checked By						
Detailed By						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist	DATE	REVISION	BY	APPD		

BRIDGE AND STRUCTURES OFFICE

Washington State Department of Transportation

STANDARD PRESTRESSED CONCRETE GIRDERS

W58G GIRDER DETAILS 1 OF 3

BRIDGE SHEET NO.

SHEET

OF

SHEETS

5.6-A5-1